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DESCRIPTORS: *Metalorganic compounds, *Potassium
compounds, Amides, *Alkyl radicals, *Benzenes,
*Deuterated compounds, Exchange reactions, *Metal-
tion, Reaction kinetics

The rate of deuterio exchange between a solution of
potassamide (0.02N) in liquid deuterioammonia and the
aromatic rings and alkyl groups of the following alkyl
benzenes: $\text{C}_6\text{H}_5\text{CH}_3$, $\text{iso-C}_6\text{H}_5\text{C}_2\text{H}_5$, $\text{tert-C}_6\text{H}_5\text{C}_4\text{H}_9$,
and $n\text{-C}_6\text{H}_5\text{C}_4\text{H}_9$ has been measured at 25, 10, and 0°C.
It has been found that deuterio exchange and the metals-
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DESCRIPTORS: *Isotopes, *Deuterium, Organic com-
pounds, *Organic solvents, Hydrocarbons, *Ammonia,
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LIQUIDE [Vodorodnyi Obmen Fenola i ego Efirov s
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(Hydrogen Exchange Between Phenol and its Ethers and
Potassium Amide Solutions in liquid Deutero-Ammonia)
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